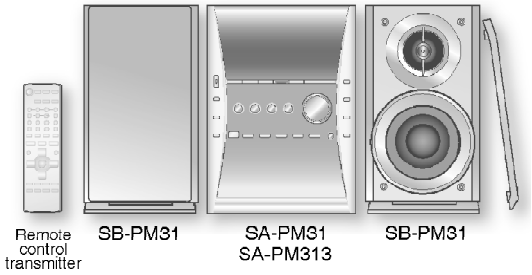
ORDER NO. MD0502031C5
A6

Service Manual

Speaker System

SB-PM31E

Colour
(M)... Wood Grain Type
(K)... Black Type



SPECIFICATIONS

Specification

Type	**2 way, 2 speaker system**
Speaker(s)	
Woofer	**10 cm cone type**
Tweeter	**6 cm cone type**
Impedance	**6 Ω**
Input power (IEC)	
HIGH	**80 W (Max)**
LOW	**80 W (Max)**
Output sound pressure level	**81 dB/W (1.0 m)**
Frequency range	**55 Hz - 22 kHz (-16 dB)**
	75 Hz - 20 kHz (-10 dB)
Dimensions (W x H x D)	**145 x 254 x 217 mm**
Mass	**2.00 kg**

Notes :

1. Specifications are subject to change without notice.

2. Mass and dimensions are approximate.

3. The labels “HIGH” and “LOW” on the rear of the speakers refer to High frequency and Low frequency.

■ **System : SC-PM31E-S** **Music Center : SA-PM31E-S**

PDF created with pdfFactory Pro trial version www.pdffactory.com

■ System : SC-PM31EB-S
Front Speaker : SB-PM31E-M
Music Center : SA-PM31EB-S

■ System : SC-PM31EG-S
Front Speaker : SB-PM31E-M
Music Center : SA-PM31EG-S

■ System : SC-PM313P-S
Front Speaker : SB-PM31E-M
Music Center : SA-PM313P-S
Front Speaker : SB-PM31E-K

© 2005 Matsushita Electric Industrial Co. Ltd.. All rights reserved.
Unauthorized copying and distribution is a violation of law.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. Connection of the Speaker Cables

- Be sure to connect speaker cables before connecting the AC power supply cord.
- The load impedance of any speaker used with this unit must be 6 Ω .
- Be sure to connect the cable from the right speaker to the right terminal and the cable from the left speaker to the left terminal.

1. Strip off the outer covering, and twist the center conductor. Make sure the bare ends of the wires are not unravelled. (If they are, twist them tight again.)
2. Insert the wire to the rear panel of the unit and close the lever.

Notes :

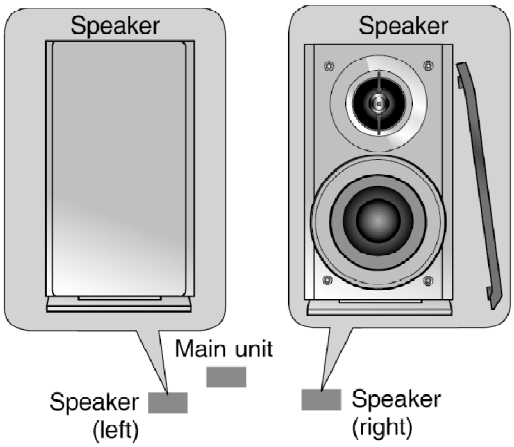
- To prevent damage to circuitry, never short-circuit positive (+) and negative (-) speaker wires.
- Be sure to connect only positive (red/white) wires to positive (+) terminals and negative (black/blue) wires to negative (-) terminals.

Placement of speakers

Speaker are designed identically so that no left or right channel orientation is necessary.

- These speakers do not have magnetic shielding. Do not place them near televisions, personal computers or other devices easily influenced by magnetism.
- To avoid damage to the speakers, do not touch the speaker cones if you have taken the nets off.

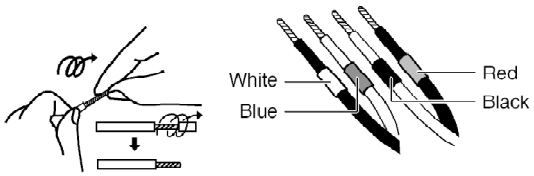
PDF created with pdfFactory Pro trial version www.pdffactory.com

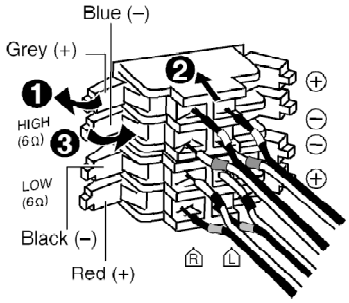


Notes :

- Keep your speakers at least 10 mm away from the system for proper ventilation.

Connection





Use only the supplied speakers.

The combination of the main unit and speakers provide the best sound.

Using other speakers can damage the unit and sound quality will be negatively affected.

Notes on speaker use

- You can damage your speakers and shorten their useful life if you play sound at high levels over extended periods.

- Reduce the volume in the following cases to avoid damage.

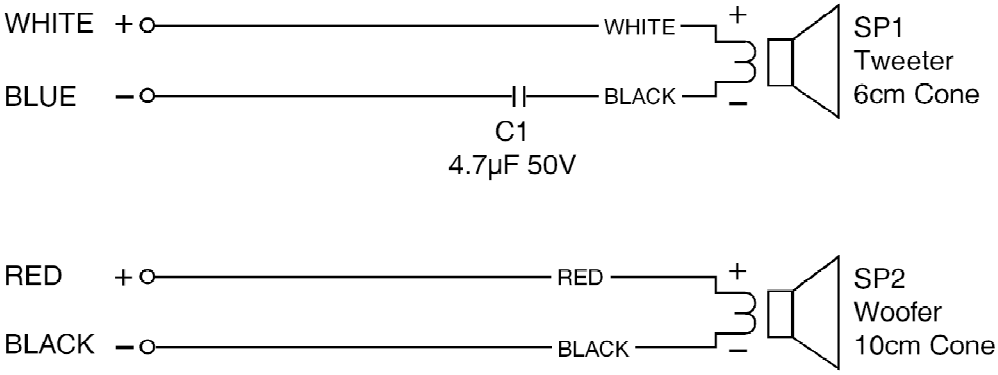
- When playing distorted sound.

- When adjusting the sound quality.

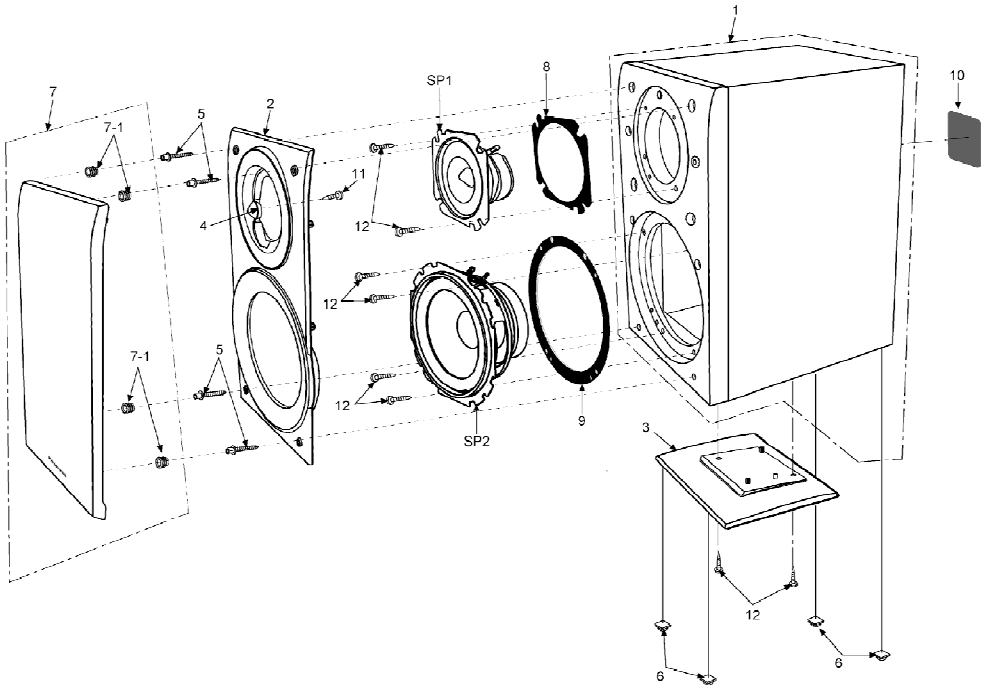
Caution
- Use the speakers only with the recommended system. Failure to do so may lead to damage to the amplifier and/or the speakers, and may result in the risk of fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.
- Do not attach these speakers to walls or ceilings.

2. Connection of the Speaker Wiring

PDF created with pdfFactory Pro trial version www.pdffactory.com



3. Cabinet Parts Location



4. Replacement Parts List

Notes :

- Important safety notice :

When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

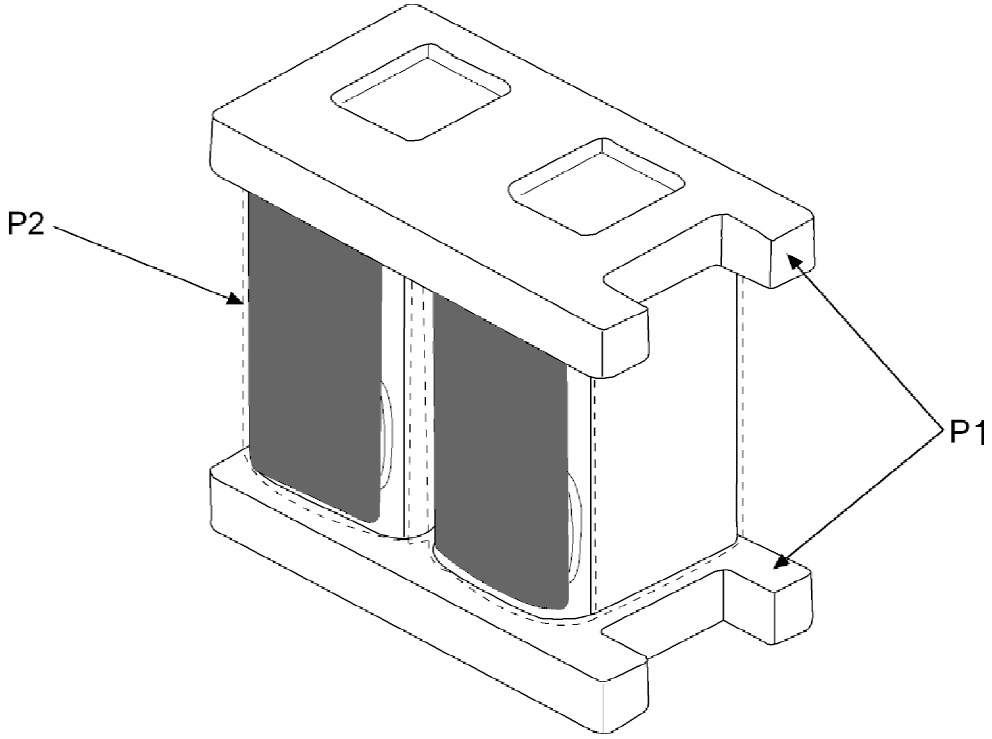
- [M] markings in the Remarks columns indicates parts supplied by PAVCSG.

PDF created with pdfFactory Pro trial version www.pdffactory.com

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RFKHBPM31E-M	SPEAKER CAB. ASS'Y	[M]M
1	RFKHBPM31E-K	SPEAKER CAB. ASS'Y	[M]K
2	RGPV0076-S	FRONT PANEL	[M]
3	RGKV0133	STAND BASE	[M]
4	RGP1311-S	CAP ORNAMENT	[M]
5	RHD40023	NET CATCH SCREW	[M]
6	RKA0072-KJ	LEG CUSHION	[M]
7	RYBV0029	NET FRAME ASS'Y	[M]
7-1	RMG0520-K	NET HOLDER	[M]
8	RMQ0621	EVA PACKING (TW)	[M]
9	RMQ1093	EVA PACKING (WOOFER)	[M]
10	RGNV0088-K	SPEC LABEL	[M]
11	XTB2+8GFJ	SCREW	[M]
12	XTB4+16AFJ	SCREW	[M]
		CAPACITOR	
C1	ECA1HAY4R7S	4.7uf 50V	[M]
		PACKING MATERIALS	
P1	RPNV0087	POLYFOAM	[M]
P2	RPF0420	MIRAMAT BAG	[M]
		SPEAKERS	
SP1	EAS6PH124B	TWEETER	[M]
SP2	EAST10P45A6	WOOFER	[M]

5. Packaging

PDF created with pdfFactory Pro trial version www.pdffactory.com



FLE0502W/S

PDF created with pdfFactory Pro trial version www.pdffactory.com